

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal202jxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 01 New pricing for the Save Answers for SciFinder Wizard within  
STN Express with Discover!  
NEWS 4 OCT 28 KOREAPAT now available on STN  
NEWS 5 NOV 30 PHAR reloaded with additional data  
NEWS 6 DEC 01 LISA now available on STN  
NEWS 7 DEC 09 12 databases to be removed from STN on December 31, 2004  
NEWS 8 DEC 15 MEDLINE update schedule for December 2004  
NEWS 9 DEC 17 ELCOM reloaded; updating to resume; current-awareness  
alerts (SDIs) affected  
NEWS 10 DEC 17 COMPUAB reloaded; updating to resume; current-awareness  
alerts (SDIs) affected  
NEWS 11 DEC 17 SOLIDSTATE reloaded; updating to resume; current-awareness  
alerts (SDIs) affected  
NEWS 12 DEC 17 CERAB reloaded; updating to resume; current-awareness  
alerts (SDIs) affected  
NEWS 13 DEC 17 THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB  
NEWS 14 DEC 30 EPFULL: New patent full text database to be available on STN  
NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED  
NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and  
February 2005  
NEWS 17 JAN 26 CA/CAPLUS - Expanded patent coverage to include the Russian  
Agency for Patents and Trademarks (ROSPATENT)  
NEWS 18 FEB 10 STN Patent Forums to be held in March 2005  
NEWS 19 FEB 16 STN User Update to be held in conjunction with the 229th ACS  
National Meeting on March 13, 2005  
  
NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
specific topic.

All use of STN is subject to the provisions of the STN Customer  
agreement. Please note that this agreement limits use to scientific  
research. Use for software development or design or implementation  
of commercial gateways or other similar uses is prohibited and may  
result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 12:30:36 ON 18 FEB 2005

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 12:31:02 ON 18 FEB 2005  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
 COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 18 Feb 2005 VOL 142 ISS 9  
 FILE LAST UPDATED: 17 Feb 2005 (20050217/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s blend? (4a) fischer tropisch products
    249671 BLEND?
    22324 FISCHER
    15 FISCHERS
    22336 FISCHER
        (FISCHER OR FISCHERS)
    7291 TROPSCH
    1270694 PRODUCTS
    159 FISCHER TROPSCH PRODUCTS
        (FISCHER(W)TROPSCH(W)PRODUCTS)
L1      3 BLEND? (4A) FISCHER TROPSCH PRODUCTS
```

```
=> s blend? (4a) hydrocarbon? products?
    249671 BLEND?
    485822 HYDROCARBON?
    1270731 PRODUCTS?
    1238 HYDROCARBON? PRODUCTS?
        (HYDROCARBON?(W)PRODUCTS?)
L2      1 BLEND? (4A) HYDROCARBON? PRODUCTS?
```

```
=> s l1 or l2
L3      4 L1 OR L2
```

```
=> d l3 ibib ab 1-4
```

```
L3      ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:      2002:965170  CAPLUS
DOCUMENT NUMBER:       138:41839
TITLE:                 Increased oxidation resistance of Fischer-
                        Tropsch products by blending
                        with sulfur-containing petroleum products
INVENTOR(S):           O'Rear, Dennis J.
PATENT ASSIGNEE(S):    Chevron U.S.A. Inc., USA
SOURCE:                U.S. Pat. Appl. Publ., 9 pp.
                        CODEN: USXXCO
DOCUMENT TYPE:         Patent
LANGUAGE:              English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
```

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

US 2002193646	A1	20021219	US 2001-882709	20010615
US 6833484	B2	20041221		
WO 2002102749	A1	20021227	WO 2002-US17131	20020530
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
BR 2002010395	A	20040810	BR 2002-10395	20020530
JP 2004534881	T2	20041118	JP 2003-505294	20020530
AU 2002045747	A5	20021219	AU 2002-45747	20020531
GB 2380487	A1	20030409	GB 2002-12722	20020531
GB 2380487	B2	20040818		
GB 2396622	A1	20040630	GB 2004-4835	20020531
ZA 2002004633	A	20030213	ZA 2002-4633	20020610
NL 1020877	A1	20021217	NL 2002-1020877	20020614
NL 1020877	C2	20030520		

PRIORITY APPLN. INFO.:

US 2001-882709	A	20010615
WO 2002-US17131	W	20020530
GB 2002-12722	A3	20020531

AB The oxidation resistance of Fischer-Tropsch products (e.g., waxes or diesel fuel distillates) is improved by **blending the Fischer-Tropsch products** with an amount of a petroleum-derived hydrocarbon product that may contain antioxidants or compds. with antioxidant behavior, especially sulfur compds. from prior processing steps, such that the sulfur content of the blended material has a sulfur content of 1-100 ppm. An optional hydrotreating step can be carried out on the blend to further reduce the sulfur content. Thus, the oxidation resistance of a Fischer-Tropsch-derived diesel fuel is increased by adding >1 ppm disulfides formed from oxidation of mercaptans during sweetening of petroleum-derived fuel gases.

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:965169 CAPLUS

DOCUMENT NUMBER: 138:41838

TITLE: Blending of disulfides as temporary antioxidants to impart temporary oxidation resistance to Fischer-Tropsch fractions

INVENTOR(S): O'Rear, Dennis J.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002193645	A1	20021219	US 2001-882675	20010615
WO 2002102944	A1	20021227	WO 2002-US15723	20020516
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
BR 2002010394	A	20040810	BR 2002-10394	20020516
AU 2002045746	A5	20021219	AU 2002-45746	20020531
GB 2380488	A1	20030409	GB 2002-12724	20020531

ZA 2002004631	A	20030213	ZA 2002-4631	20020610
NL 1020875	A1	20021217	NL 2002-1020875	20020614
NL 1020875	C2	20030520		

PRIORITY APPLN. INFO.:                    US 2001-882675    A 20010615  
    WO 2002-US15723    W 20020516

OTHER SOURCE(S):                    MARPAT 138:41838

AB    The oxidation resistance of Fischer-Tropsch products (e.g., waxes or diesel fuel distillates) is temporarily improved by **blending** the **Fischer-Tropsch products** with a temporary antioxidant such that the blended product has a peroxide number of <5 ppm after 7 days. The temporary antioxidant is typically sulfur-containing compds. generated from sweetening of light [petroleum] hydrocarbon streams, especially disulfides, from mercaptan oxidation, of general formula R-Sx-R1 (R and R1 = linear, branched, or cycloalkyl; x = 1-4; preferably R and R1 = C1-4-alkyl, and x = 2 or 3). In addition, blending of a product (e.g., diesel fuel) derived from conventional refining can impart oxidation resistance to the corresponding Fischer-Tropsch fraction. The sulfur content of these blends can be removed when desired (i.e., after transportation to a refinery) by simple distillation or hydrotreating. The method can be used for such Fischer-Tropsch-derived streams as naphtha, jet fuel, diesel fuel, paraffinic solvents, lubricating base oils, LPG, and synthetic crude.

L3    ANSWER 3 OF 4    CAPLUS    COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:                    2001:812795    CAPLUS  
 DOCUMENT NUMBER:                    136:234427  
 TITLE:                                Emissions from Fischer-Tropsch diesel fuels  
 AUTHOR(S):                           Johnson, Jack W.; Berlowitz, Paul J.; Ryan, D. F.;  
    Wittenbrink, R. J.; Genetti, W. B.; Ansell, L. L.;  
    Kwon, Y.; Rickeard, D. J.  
 CORPORATE SOURCE:                   Products Division, ExxonMobil Research and  
    Engineering, Paulsboro, NJ, USA  
 SOURCE:                                Society of Automotive Engineers, [Special Publication]  
    SP (2001), SP-1645(SI and Diesel Engine Performance  
    and Fuel Effects), 17-27  
    CODEN: SAESA2; ISSN: 0099-5908  
 PUBLISHER:                           Society of Automotive Engineers  
 DOCUMENT TYPE:                       Journal  
 LANGUAGE:                             English

AB    A series of exptl. diesel fuels using neat Fischer-Tropsch streams or blends of F-T streams with conventional cracked stocks was tested in diesel engines and produced lower emissions when compared with current diesel fuel. These exptl. fuels cover a variety of b.p. ranges, extending from light naphtha to heavier-than-conventional diesel fuels. All the fuels exhibited lower NOx and particulate emissions. F-T products can be used to increase the use of marginal refinery streams as diesel blend stocks to better meet fuel specifications (because of their low-sulfur and low-aromatic contents, low-d., and high cetane number). Extended-range (lower-boiling-point) diesel fuels also have a high cetane number and can be blended with conventional diesel fuels, provided that measures should be taken to handle the lower flash points because of the higher-volatility end fractions.

REFERENCE COUNT:                    27            THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS  
    RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3    ANSWER 4 OF 4    CAPLUS    COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:                    1981:194806    CAPLUS  
 DOCUMENT NUMBER:                    94:194806  
 TITLE:                                Treating used hydrocarbon lubricating oils  
 INVENTOR(S):                           Salusinszky, Andor L.  
 PATENT ASSIGNEE(S):                   Australia  
 SOURCE:                                U.S., 4 pp.  
    CODEN: USXXAM  
 DOCUMENT TYPE:                       Patent  
 LANGUAGE:                             English  
 FAMILY ACC. NUM. COUNT:            2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4250021	A	19810210	US 1979-70713	19790829
AU 7950871	A1	19800403	AU 1979-50871	19780928
AU 533444	B2	19831124		
CA 1140884	A1	19830208	CA 1980-346781	19800229
PRIORITY APPLN. INFO.:			AU 1978-6150	A 19780928
			US 1979-70713	19790829

AB Process for removing metal(s) and water from used hydrocarbon lubricating oil characterized in that the said used oil is treated with an aqueous solution containing a surfactant (e.g., polyethylene glycol monononyl ether [39587-22-9]) and anions (e.g., H<sub>2</sub>SO<sub>4</sub>, (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, (NH<sub>4</sub>)<sub>2</sub>HPO<sub>4</sub>, oxalic acid [144-62-7], NH<sub>4</sub>HSO<sub>4</sub>) which form an insol. salt or insol. salts with ≥1 metal present in the said used oil followed by separation of an oil layer of reduced metal and water content. The oil so treated is suitable for refinery feedstock, and also as fuel oil or **blendstock** for other **hydrocarbon products**, or as rerefining feedstock.

=> s (first synthesis gas) or (first syngas)

965859 FIRST  
60 FIRSTS  
965907 FIRST  
(FIRST OR FIRSTS)  
1164897 SYNTHESIS  
3 SYNTHESISES  
63466 SYNTHESSES  
1200764 SYNTHESIS  
(SYNTHESIS OR SYNTHESISES OR SYNTHESSES)  
1408959 GAS  
483036 GASES  
1581831 GAS  
(GAS OR GASES)  
8 FIRST SYNTHESIS GAS  
(FIRST(W) SYNTHESIS (W) GAS)  
965859 FIRST  
60 FIRSTS  
965907 FIRST  
(FIRST OR FIRSTS)  
3405 SYNGAS  
14 SYNGASES  
3410 SYNGAS  
(SYNGAS OR SYNGASES)  
0 FIRST SYNGAS  
(FIRST(W) SYNGAS)  
L4 8 (FIRST SYNTHESIS GAS) OR (FIRST SYNGAS)

=> s 14 and carbon dioxide

1102709 CARBON  
24475 CARBONS  
1111627 CARBON  
(CARBON OR CARBONS)  
426172 DIOXIDE  
6396 DIOXIDES  
427782 DIOXIDE  
(DIOXIDE OR DIOXIDES)  
199989 CARBON DIOXIDE  
(CARBON(W) DIOXIDE)  
L5 4 L4 AND CARBON DIOXIDE

=> s 15 and (adjust? (4a) synthesis gas)

236833 ADJUST?  
1164897 SYNTHESIS  
3 SYNTHESISES  
63466 SYNTHESSES  
1200764 SYNTHESIS  
(SYNTHESIS OR SYNTHESISES OR SYNTHESSES)

```

1408959 GAS
483036 GASES
1581831 GAS
      (GAS OR GASES)
15249 SYNTHESIS GAS
      (SYNTHESIS(W)GAS)
40 ADJUST? (4A) SYNTHESIS GAS
L6      0 L5 AND (ADJUST? (4A) SYNTHESIS GAS)

=> s 15 and (adjust? (4a) syngas)
236833 ADJUST?
3405 SYNGAS
14 SYNGASES
3410 SYNGAS
      (SYNGAS OR SYNGASES)
4 ADJUST? (4A) SYNGAS
L7      0 L5 AND (ADJUST? (4A) SYNGAS)

=> s 15 and increas? (4a) hdyrogen (3a) carbon monoxide
3783434 INCREAS?
13 HDYROGEN
1102709 CARBON
24475 CARBONS
1111627 CARBON
      (CARBON OR CARBONS)
164308 MONOXIDE
969 MONOXIDES
164821 MONOXIDE
      (MONOXIDE OR MONOXIDES)
138988 CARBON MONOXIDE
      (CARBON(W)MONOXIDE)
0 INCREAS? (4A) HDYROGEN (3A) CARBON MONOXIDE
L8      0 L5 AND INCREAS? (4A) HDYROGEN (3A) CARBON MONOXIDE

=> s 15 and hydrogen (2a) rich stream
856581 HYDROGEN
5506 HYDROGENS
859670 HYDROGEN
      (HYDROGEN OR HYDROGENS)
258433 RICH
94 RICHES
258520 RICH
      (RICH OR RICHES)
141765 STREAM
41228 STREAMS
167566 STREAM
      (STREAM OR STREAMS)
534 RICH STREAM
      (RICH(W)STREAM)
52 HYDROGEN (2A) RICH STREAM
L9      0 L5 AND HYDROGEN (2A) RICH STREAM

=> s 15 and hydrogen (2a) rich
856581 HYDROGEN
5506 HYDROGENS
859670 HYDROGEN
      (HYDROGEN OR HYDROGENS)
258433 RICH
94 RICHES
258520 RICH
      (RICH OR RICHES)
2116 HYDROGEN (2A) RICH
L10      0 L5 AND HYDROGEN (2A) RICH

```

=> .s (combin? or Mix?) (4a) hydrocarbon? products?  
992408 COMBIN?  
2615419 MIX?  
485822 HYDROCARBON?  
1270731 PRODUCTS?  
1238 HYDROCARBON? PRODUCTS?  
(HYDROCARBON? (W) PRODUCTS?)  
L11 18 (COMBIN? OR MIX?) (4A) HYDROCARBON? PRODUCTS?

=> s l11 and hydrogen (2a) rich stream  
856581 HYDROGEN  
5506 HYDROGENS  
859670 HYDROGEN  
(HYDROGEN OR HYDROGENS)  
258433 RICH  
94 RICHES  
258520 RICH  
(RICH OR RICHES)  
141765 STREAM  
41228 STREAMS  
167566 STREAM  
(STREAM OR STREAMS)  
534 RICH STREAM  
(RICH(W) STREAM)  
52 HYDROGEN (2A) RICH STREAM  
L12 0 L11 AND HYDROGEN (2A) RICH STREAM

=> s l11 and increas? (4a) hdyrogen (3a) carbon monoxide  
3783434 INCREAS?  
13 HDYROGEN  
1102709 CARBON  
24475 CARBONS  
1111627 CARBON  
(CARBON OR CARBONS)  
164308 MONOXIDE  
969 MONOXIDES  
164821 MONOXIDE  
(MONOXIDE OR MONOXIDES)  
138988 CARBON MONOXIDE  
(CARBON(W) MONOXIDE)  
0 INCREAS? (4A) HDYROGEN (3A) CARBON MONOXIDE  
L13 0 L11 AND INCREAS? (4A) HDYROGEN (3A) CARBON MONOXIDE

=> s l11 and Fischer tropsch  
22324 FISCHER  
15 FISCHERS  
22336 FISCHER  
(FISCHER OR FISCHERS)  
7291 TROPSCH  
7198 FISCHER TROPSCH  
(FISCHER(W) TROPSCH)  
L14 1 L11 AND FISCHER TROPSCH

=> d l14 ibib ab

L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1987:216859 CAPLUS  
DOCUMENT NUMBER: 106:216859  
TITLE: Improved **Fischer-Tropsch** process  
for providing increased diesel and heavy hydrocarbon  
yield  
INVENTOR(S): Kuo, James Cheng Wu; Haag, Werner Otto; Weisz, Paul  
Burg  
PATENT ASSIGNEE(S): Mobil Oil Corp., USA  
SOURCE: Brit. UK Pat. Appl., 7 pp.  
CODEN: BAXXDU  
DOCUMENT TYPE: Patent